



TASK ORDER (TO)

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Modification PS05

Tactical Radio Frequency Exploitation Support Program

in support of:

**United States Army's Program Executive Office for Intelligence
Electronic Warfare and Sensors**

Issued to:

**CACI International, Incorporated under General Services Administration (GSA) One Acquisition
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Issued by:

**The Federal Systems Integration and Management Center (FEDSIM)
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C.1 BACKGROUND

The Army Program Executive Office Intelligence Electronic Warfare and Sensors (PEO IEW&S) serves as the unique technical and fiscal interface with the national program offices, and facilitates exploitation of intelligence information and capabilities from national and theater systems to support Army tactical warfighters and commanders. This effort is based on exploiting current and future tactical potential of national capabilities and integrating these capabilities into the tactical decision making process as rapidly as possible.

C.1.1 PURPOSE

The purpose of the TO is to provide Tactical Radio Frequency Exploitation (TRFE) capabilities through design, architecture engineering, configuration management, collection and detection, system integration, test and evaluation, and technical and logistical sustainment support.

C.1.2 AGENCY MISSION

The Army PEO IEW&S provides military intelligence to tactical warfighters, and military commanders in the Department of Defense (DoD) and the Intelligence Community, in support of strategic Cyber and Electronic operations, procurements, and reporting of national security guidelines.

The Army PEO IEW&S requires a broad range of support for its TRFE capabilities. This range of support includes developing, integrating, and sustaining TRFE sensors, and system enhancements against unmanned and/or automated, remotely operated platforms and systems. These systems operate on a classified network and are used by the warfighter and commanders in strategic operational settings to provide real-time indications and warnings of ongoing threats. This information is utilized at the highest levels of our Government to assist in tactical decision making and National Security assessments. The TRFE capabilities must be continuously enhanced to keep pace with evolving threats through software baseline enhancements and hardware upgrades. Furthermore, TO will provide development support to assist the Army TENCAP program in modernizing the TRFE capabilities and the Intelligence, Surveillance, and Reconnaissance (ISR) convergence in Signals Intelligence (SIGINT) and Electronic Warfare and Cyber operations. This TO will provide support for multiple Army TENCAP intelligence sensor system projects such as Quick Reaction Capability (QRC), Program of Record (POR), rapid prototypes, Special Access Programs (SAPs), Testbed, and other identified efforts.

C.2 SCOPE

While the support services provided under this TO support national security systems, the scope does not include the procurement of information technology supplies, systems, or services in support of weapon systems (e.g. components, services to install and maintain weapon systems, ancillary items and services, etc.). The scope of this TO is to obtain systems engineering, integration, testing, life cycle maintenance support, and Operation and Maintenance (O&M) training to promote full communication and remote operation functions for all TRFE and Army TENCAP intelligence sensor system projects. This task will also provide technical support for the procurement and installation of Commercial off-the-shelf (COTS) hardware components as well as the fabrication and assembly of specialized components for the design and delivery of

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TRFE systems at Outside the Contiguous United States (OCONUS) and Contiguous United States (CONUS) designated locations

The contractor shall primarily perform work for this TO at its own facilities in the Northern Virginia area. Long-distance travel in support of this TO is also anticipated for the deployment of personnel to various CONUS and OCONUS locations when required to include multiple Combatant Commands (CCMDs) and Unified Combatant Commands (UCCs).

C.3 CURRENT ENVIRONMENT

While the scope and Performance Work Statement (PWS) is defined herein, the technical specifications are classified in nature. Therefore, the system technical specifications and locations are provided in **Section J, Attachment J**, respectively which are maintained at the client site. The contractor may access these attachments by contacting the FEDSIM Contracting Officer's Representative (COR) and/or Army TENCAP Technical Point of Contact (TPOC).

C.4 OBJECTIVE

The contractor shall accomplish the following objectives for work performed under this TO:

- a. Develop, integrate, and sustain TRFE sensors, and system enhancements.
- b. Provide development support to assist the TENCAP program in modernizing the TRFE capabilities and the ISR convergence in SIGINT and Electronic Warfare and Cyber operations.
- c. Facilitate exploitation of intelligence information and capabilities from national and theater systems to support Army tactical commanders.

C.5 TASKS

C.5.1 TASK 1 – PROVIDE PROJECT MANAGEMENT

The contractor shall provide project management support under this TO. This includes the management and oversight of all activities performed by contractor personnel, including subcontractors, to satisfy the requirements identified in this PWS. The program manager shall ensure adherence to all applicable regulatory and statutory program documentation.

The contractor shall identify a Project Manager (PM) by name who shall provide management, direction, administration, quality assurance, and leadership for the execution of this TO.

C.5.1.1 SUBTASK 1 – ACCOUNTING FOR CONTRACTOR MANPOWER REPORTING

The contractor shall report ALL contractor labor hours (including subcontractor labor hours) required for performance of services provided under this contract for the Army TENCAP via a secure data collection site. The contractor shall completely fill in all required data fields using the following web address: <http://www.ecmra.mil/>.

Reporting inputs will be for the labor executed during the period of performance during each Government Fiscal Year (FY), which runs October 1 through September 30. While inputs may

be reported any time during the FY, all data shall be reported no later than October 31 of each calendar year. Contractors may direct questions to the support desk at: <http://www.ecmra.mil/>.

Contractors may use Extensible Markup Language (XML) data transfer to the database server or fill in the fields on the website. The XML direct transfer is a format for transferring files from a contractor's systems to the secure web site without the need for separate data entries for each required data element at the website. The specific formats for the XML direct transfer may be downloaded from the web.

C.5.1.2 SUBTASK 2 – COORDINATE A PROJECT KICK-OFF MEETING

The contractor shall schedule, coordinate, and host a Project Kick-Off Meeting at the location approved by the Government (**Section F, Deliverable 03**). The meeting will provide an introduction between the contractor personnel and Government personnel who will be involved with the TO. The meeting will provide the opportunity to discuss technical, management, and security issues, and travel authorization and reporting procedures. At a minimum, the attendees shall include Key contractor Personnel, representatives from the directorates, other relevant Government personnel, and the FEDSIM COR.

At least three days prior to the Kick-Off Meeting, the contractor shall provide a Kick-Off Meeting Agenda (**Section F, Deliverable 02**) for review and approval by the FEDSIM COR and the Army TENCAP TPOC prior to finalizing. The agenda shall include, at a minimum, the following topics/deliverables:

- a. Points of contact (POCs) for all parties
- b. Draft Project Management Plan (PMP) (**Section C.5.1.3**) discussion including schedule, tasks, etc.
- c. Draft Integrated Master Schedule (**Section C.5.1.4**)
- d. Draft format for Financial Report (**Section C.5.1.6**)
- e. Personnel discussion (i.e., roles and responsibilities and lines of communication between contractor and Government)
- f. Staffing Plan and status
- g. Status and process of the following OCONUS Special Requirements: Theater Business Clearance (TBC), Letters of Authorization (LOA), Government Furnished Life Support Validation (GFLSV), Synchronized Predeployment and Operational Tracker (SPOT), Technical Expert Status Accreditation (TESA), and Status of Forces Agreement (SOFA)
- h. Security discussion and requirements (i.e., building access, badges, Common Access Cards (CACs))
- i. TO administration and invoicing requirements
- j. Transition discussion

The deliverables required to be provided to the Government at the Kick-Off Meeting are listed in **Section F**.

The Government will provide the contractor with the number of Government participants for the Kick-Off Meeting and the contractor shall provide sufficient copies of the presentation for all present.

The contractor shall draft and provide a Kick-Off Meeting minutes report (**Section F, Deliverable 10**) in accordance with **Section C.5.1.8, Provide Meeting Reports**, documenting the Kick-Off Meeting discussion and capturing any action items.

C.5.1.3 SUBTASK 3 – PREPARE A PROJECT MANAGEMENT PLAN (PMP)

The contractor shall prepare and deliver a draft and a final PMP that is based on the contractor's solution. The contractor shall utilize the PMP as the foundation for information and resource management planning. At a minimum, the PMP shall:

The PMP shall:

- a. Describe the proposed management approach and contractor organizational structure.
- b. Provide an overall Work Breakdown Structure (WBS) and associated responsibilities and partnerships between or among Government organizations.
 1. The WBS shall identify all technical activities at a level of detail sufficient for the contractor to manage the work at no less than a week by week basis.
 2. Each WBS element shall be accompanied by a description and expected result(s).
 3. Each WBS element shall include an estimate of the duration, level of effort (LOE) by labor category, and resource cost.
- c. Describe in detail the contractor's approach to risk management under this TO and approach to communications including processes, procedures, communication approach, and other rules of engagement between the contractor and the Government.
- d. Describe in detail the contractor's quality control methodology for accomplishing TO performance expectations and objectives. This includes how the contractor's processes and procedures will be tailored and integrated with the Government's requirements to ensure high quality performance.
- e. Contain detailed Standard Operating Procedures (SOPs) for all tasks.
- f. Include milestones, tasks, and subtasks required in this TO.
- g. Include the contractor's general operating procedures for:
 1. Travel
 2. Work hours
 3. Leave
 4. Staff training policies
 5. Problem or issue resolution procedures

The contractor shall provide the Government with a draft PMP (**Section F, Deliverable 04**) on which the Government will make comments. The final PMP (**Section F, Deliverable 05**) shall incorporate the Government's comments and be updated as changes in the program occur. The PMP shall be reviewed and updated as needed on a bi-annual basis, at a minimum, and the contractor shall conform to the latest Government-approved version of the PMP by utilizing a summary of change procedure that annotates the version and track all the changes from the previous version. The contractor shall keep the PMP electronically accessible to the Government at all times.

C.5.1.4 SUBTASK 4 – INTEGRATED MASTER SCHEDULE (IMS)

The contractor shall prepare and deliver an IMS (**Section F, Deliverables 06**). The IMS is an evolutionary document that shall be updated with technical inputs and significant changes as required. The contractor shall reflect the Government's requirements in planning for all activities in Task 2 through Task 7. At minimum, the IMS shall be updated on a monthly basis. The contractor shall use the same formatting and outline as the Government-approved version of the IMS.

C.5.1.5 SUBTASK 5 – PREPARE A MONTHLY STATUS REPORT (MSR) AND CONVENE A MONTHLY TECHNICAL STATUS MEETING

The contractor shall develop and provide an MSR (**Section F, Deliverable 07**) and at minimum the Army TENCAP TPOC and FEDSIM COR shall be in attendance. The MSR shall include the following:

- a. Activities during reporting period, by task (include on-going activities, new activities, and activities completed, and progress to date on all above mentioned activities). Each section shall start with a brief description of the task.
- b. Planned activities for the next reporting period.
- c. Problems and corrective actions taken. Also include issues or concerns and proposed resolutions to address them.
- d. TO logistics: personnel gains, losses, and status (security clearance, etc); summary of trips taken, conferences attended, etc. (attach Trip Reports to the MSR for reporting period); and any equipment, material or ODCs purchased.
- e. Financial information: accumulated invoiced cost for each CLIN up to the previous month and projected cost of each CLIN for the current month.

A sample MSR template is provided in **Section J, Attachment D** that outlines the Government's minimum requirements.

The contractor PM shall convene a monthly Technical Status Meeting with, at minimum, the Army TENCAP TPOC, FEDSIM COR, and other Government stakeholders (**Section F, Deliverable 08**). The purpose of this meeting is to ensure all stakeholders are informed of the monthly activities and MSR, provide opportunities to identify other activities and establish priorities, and coordinate resolution of identified problems or opportunities. The contractor PM shall provide a meeting report (**Section C.5.1.8**) of these meetings, including attendance, issues discussed, decisions made, and action items assigned, to the FEDSIM COR within five workdays following the meeting (**Section F, Deliverable 10**).

C.5.1.6 SUBTASK 6 – PROVIDE A MONTHLY FINANCIAL REPORT

The contractor shall provide a Financial Report (**Section F, Deliverable 09**) to, at minimum, the Army TENCAP TPOC and FEDSIM COR. The Financial Report shall include the following:

- a. Identification of the funding source.
- b. Monthly expenditures by Client Tracking Number (CTN) and TO level from the start of the period of performance.

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- c. Project monthly expenditures and labor hours by CTN and TO level starting with the current month through the end of the POP.
- d. Funded levels by TO and by Agency.
- e. Labor hours incurred to date by TO and by Agency.
- f. Funds remaining by CTN, CLIN, and Tasks
- g. Diagram reflecting funding and burn rate by month for the TO and at the Agency-level.
- h. Cumulative invoiced amounts for each CLIN up to the previous month.
- i. Actual current and cumulative dollars expended for small businesses compared to TO subcontracting goals.
- j. Estimated burn rate and project duration.

The contractor shall present a draft Financial Report format at the Project Kick-off Meeting (**Section C.5.1.2; Section F, Deliverable 03**) for Government review. The Government will provide written approval of the proposed format via the FEDSIM CO or FEDSIM COR, and this approved format shall be utilized for the monthly Financial Report requirement. The Government may request updates to the format based on Army TENCAP requirements and Agency needs. Any changes to the format will be requested in writing via the FEDSIM CO or FEDSIM COR.

C.5.1.7 SUBTASK 7 – ANNUAL FUNDING PLAN

The contractor shall provide an annual funding plan (**Section F, Deliverable 17**) to address Readiness-Based Sparing (RBS) planning estimates to include budget year execution recommendations and Program Objective Memorandum (POM) planning/programming estimates for new and legacy intelligence QRC systems and equipment.

C.5.1.8 SUBTASK 8 - PROVIDE MEETING REPORTS

The contractor shall submit Meeting Reports (**Section F, Deliverable 10**), as requested by the Army TENCAP TPOC and/or FEDSIM COR, to document meetings. The Meeting Reports shall, at a minimum, include the following information:

- a. Meeting attendees and their contact information and, at a minimum, identify organizations represented
- b. Meeting date and location
- c. Meeting agenda
- d. Purpose of meeting
- e. Summary of what transpired (issues and risks discussed, decisions made, and action items assigned)
- f. Conclusion
- g. Recommendation(s)
- h. Next scheduled event(s) impacting or impacted by the meeting

C.5.1.9 SUBTASK 9 – PREPARE TRIP REPORTS

The Government will identify the need for a Trip Report when the request for travel is submitted (**Section F, Deliverable 11**). The contractor shall keep a summary of all long-distance travel including, but not limited to, the name of the employee, location of travel, duration of trip, and POC at travel location. Trip reports shall also contain Government approval authority, total cost of the trip, a detailed description of the purpose of the trip, and any knowledge gained. A sample trip report template is provided in **Section J, Attachment E** that outlines the Government's minimum requirements.

C.5.1.10 SUBTASK 10 – PREPARE COST ESTIMATE DEVELOPMENT

All requests for new, revised, and/or renewed support will be communicated in writing to the contractor from the FEDSIM CO or COR. Once the contractor receives a support request, the contractor shall generate and provide the Army TENCAP TPOC and FEDSIM COR with a Rough Order of Magnitude (ROM) or a cost estimate (**Section F, Deliverable 12**) to complete the required effort. The ROM shall include a total estimated labor; equipment, materials, and ODCs; and travel costs to accomplish the effort. Within the ROM, the contractor shall identify the estimated labor categories, associated labor rates, and LOE necessary to complete the effort to arrive at a total estimated labor cost. Additionally, the contractor shall also provide a breakout of all estimated equipment, material, and ODCs and travel costs.

The Government will provide the contractor with a ROM completion/submission date for each ROM request provided to the contractor. Within two days of receiving the Government's request for ROM development, the contractor shall notify the Army TENCAP TPOC and the FEDSIM COR in writing if the request is not detailed enough to enable completion of the ROM and provide the Army TENCAP TPOC and FEDSIM COR with details regarding what additional information is needed in order to complete the ROM. Once the Government has accepted the ROM, the FEDSIM COR will provide the contractor with authorization to proceed in writing.

C.5.1.11 SUBTASK 11 – PREPARE PURCHASE ORDER REPORT

The contractor shall provide a purchase order report that records approved contract commercial purchases and is used to track usage and costs (**Section F, Deliverable 13**). The report shall include the following:

- a. Date purchase order initiated
- b. Requisition Number or Purchase Order Number (if different from requisition number)
- c. Work Order number (as reported to the Logistics Information Warehouse)
- d. NSN or Part Number, if available
- e. Description/nomenclature
- f. Total quantity ordered
- g. Field Site (location) that initiated purchase
- h. Field Site (location) that items being delivered to (if more than one location, indicate quantity being shipped to each location)
- i. Bill-to CLIN/(if assigned) CTN
- j. Unit cost and Total/Extended cost

- k. Order initiation date
- l. Order due date
- m. Quantity received as of date of report (Block 11)
- n. Status of due-in quantity
- o. Close date (date 100% of quantity ordered received or order cancelled)

Only approved Purchase Orders shall be included; Purchase Requests undergoing review process on As-Of date of report shall not be included. Format must allow for sorting data, at minimum, by site (ordering location or deliver to location), by date order initiated, by Requisition/Purchase Order number, by bill-to CLIN/CTN, by work order number, or by NSN/Part Number Format to be proposed by contractor. Information shall reflect work order information monthly for all locations worldwide.

C.5.1.12 SUBTASK 12 – ADMINISTER OCONUS LOGISTIC SUPPORT

The contractor shall be responsible for understanding and fully complying with DoD, Army, Theater, and TENCAP directives for all deployed personnel. The contractor shall coordinate all activities with the local Combatant Commander and/or governments to ensure all contractor deployments are executed on schedule and in accordance with all required directives. This support shall include direct assistance with all actions required to deploy contractor personnel to any contingency area. The contractor shall work in conjunction with the Government and stay abreast of all deployment requirements. These OCONUS logistic support requirements are further detailed in **Section H.10.** .

C.5.1.13 SUBTASK 13 – PROVIDE QUALITY CONTROL PLAN (QCP)

The contractor shall develop and provide a QCP (**Section F, Deliverable 14**). The contractor shall periodically update the QCP as changes in program processes are identified and at minimum as stated in Section F.

Within the QCP, the contractor shall identify its approach for providing quality control in meeting the requirements of the TO. The contractor's QCP shall describe its quality control methodology for accomplishing TO performance expectations and objectives. The contractor shall fully discuss its validated processes and procedures that provide high quality performance for each Task Area. The QCP shall describe how the processes integrate with the Government's requirements.

The Government intends to utilize a Quality Assurance Surveillance Plan (QASP) to ensure the required performance standards and quality levels for this TO are achieved by the contractor.

C.5.1.14 SUBTASK 14 – EXECUTE TRANSITION-OUT

The contractor shall provide Transition-Out support when required by the Government. The Transition-Out Plan shall facilitate the accomplishment of a seamless transition from the incumbent to an incoming contractor/Government personnel at the expiration of the TO. The contractor shall provide a draft Transition-Out Plan within six months of Project Start (PS) (**Section F, Deliverable 15**). The Government will work with the contractor to finalize the Transition-Out Plan (**Section F, Deliverable 16**) in accordance with Section E.

In the Transition-Out Plan, the contractor shall identify how it will coordinate with the incoming contractor and/or Government personnel to transfer knowledge regarding the following:

- a. Project management processes
- b. Points of contact
- c. Location of technical and project management documentation
- d. Status of ongoing technical initiatives
- e. Appropriate contractor to contractor coordination to ensure a seamless transition
- f. Transition of Key Personnel
- g. Schedules and milestones
- h. Actions required of the Government

The contractor shall also establish and maintain effective communication with the incoming contractor/Government personnel for the period of the transition via weekly status meetings or as often as necessary to ensure a seamless Transition-Out. The contractor shall implement its Transition-Out Plan NLT six months prior to expiration of the TO.

C.5.2 TASK 2 - PROVIDE SYSTEMS ENGINEERING AND INTEGRATION SUPPORT

The contractor shall provide prototyping, engineering, and associated testing and systems integration efforts for all TENCAP intelligence sensor system projects. This includes performing hardware design and prototyping capable of operating under field conditions as required. The contractor shall also support system integration efforts necessary to deliver both hardware and software-based National system capabilities in accordance with the applicable TENCAP intelligence sensor system projects' scope, schedule, and performance parameters. The hardware and software engineering support for TRFE or intelligence sensor system projects include the following:

- a. Support all system variants to ensure interoperability with COTS/Government off-the-shelf (GOTS) hardware and capable of maintaining the same level of control and status monitoring from the existing National system's software baseline.
- b. Provide the appropriate hardware and software baseline regardless of the system variant operating. The same software version shall apply to all variants to include, but is not limited to, upgrades, patches, and other remote software maintenance to promote seamless operations across all systems and system reporting architecture.
- c. Develop new versions and upgrades for the software to integrate into the TRFE enterprise baseline in accordance with applicable usability and accessibility standards.
- d. Provide sensors capable of contributing to intelligence reports compatible with standard word and graphic tools; perform routine operating system version upgrades; and provide other similar software-based O&M support remotely via web-based installation. In addition, the interface shall incorporate mapping and display software to support the Government.
- e. Perform further development and refinement of classified capabilities and other software upgrades in support of integration into the National SIGINT reporting baseline(s).

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- f. Provide engineering and development efforts to enable the collection software to be ported over to other collection sensors as a modular application to eliminate the need for additional power and space requirements.
- g. Develop and maintain a functional requirement system specification for all TENCAP TRFE systems in accordance with the American Society of Mechanical Engineers (ASME) Y14.1M standard code adopted by DoD. The contractor shall also provide engineering drawings and schematics that illustrate the technical and functional layout of the TRFE and their associated system-level components.
- h. Provide ongoing engineering and refinements for the scripts libraries used to target different categories and subsets of systems.
- i. Support efforts to reduce the size, scalability, and modularity of TRFE capabilities for incorporation into future systems in an effort to exceed current, range, gain, and bandwidth performance while reducing system size and power requirements.
- j. Conduct systems integration research to perform further development and refinement of classified capabilities and other software upgrades in support of integration into the National SIGINT reporting baseline(s) in accordance with the technical specifications outlined in **Section J, Attachment J**.
- k. Conduct research to provide engineering and development efforts that enable the collection software to be ported over to other collection sensors as a modular application to eliminate the need for additional power and space requirements.
- l. Support configuration management activities (i.e., Engineering Review Board, System Engineering Integrated Product Team, Configuration Control Board, Discrepancy Reports) in accordance with the technical specifications outlined in **Section J, Attachment J** of all TRFE and intelligence sensor system projects. This support includes, but is not limited to, research, preparing program of record documentation requirements, scheduling the activities, and assisting the Government with conducting these configuration management activities to ensure compliance with TENCAP standard operating procedures.

C.5.3 TASK 3- PROVIDE SYSTEMS OPERATION SUSTAINMENT AND USER SUPPORT

The contractor shall provide systems and operational support for deployed systems and perform Preventive Maintenance, Checks, and Services (PMCS) on all supported systems and equipment.

C.5.3.2 SUBTASK 1 – TRFE SYSTEM USER SUPPORT

The contractor shall assist users by providing support on TRFE systems to include identifying, resolving, tracking problems, and responding to questions concerning the systems. The contractor shall provide support to include the following activities:

- a. Provide on-call support 24 hours a day, seven days a week (24X7) including Field Support Representatives for multiple CCMDs and UCCs across the world to troubleshoot and resolve all system related hardware/software problems reported.
- b. Provide immediate support to operational systems by identifying, addressing, and resolving any technical outages to ensure there is not a decrease in system capability.

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- c. Perform Information Technology (IT) system-based queries and analysis on the collection, processing, exploitation, and dissemination of time-sensitive information/intelligence to support customer initiatives.
- d. Track all inquiries (e.g., phone calls, electronic mail (email)) to document trouble calls and other requests. Document individual trouble calls, requests, and resolution.
- e. Provide information, updates, and notifications on the status of systems (downtime and resolution) to the end-users.
- f. Identify and troubleshoot TRFE issues due to design and implementation constraints and provide the Government with recommendations to resolve these issues.
- g. Analyze trouble call tickets to determine trends and preventive measures.
- h. Provide recommendations to Army TENCAP on trends in system troubles and/or training requirements.

The contractor shall be prepared for Long-Distance Travel on short notice if system issues arise that cannot be resolved through troubleshooting.

C.5.3.2 SUBTASKS 2 - SYSTEMS AND OPERATIONS SUSTAINMENT

The contractor shall provide comprehensive worldwide field and sustainment level maintenance support at or above a 90% operational readiness rate. This support shall include preventive maintenance, inspection and analysis, fault isolation, repair, calibration, and alignment of mission systems to ensure optimal system performance. Operationally, this requires the contractor to rapidly adapt to constantly changing locations and operational conditions and reallocate assets in support of changing missions and risks to meet requirements.

The contractor shall perform PMCS on all supported systems and equipment, as required, in accordance with Army Regulation (AR) 750-1 (Army Materiel Maintenance Policy), applicable Technical Manuals (TM), Original Equipment Manufacturer (OEM) specifications, and/or other approved documentation. The contractor shall document all completed maintenance support actions utilizing Army maintenance records and forms outlined by the AR 750-1 (Army Materiel Maintenance Policy). Additionally, the contractor shall monitor system performance, isolate faults, and repair system malfunctions as they occur and report these to the Army TENCAP TPOC. In the absence of an applicable policy, the contractor shall consult with the FEDSIM COR and Army TENCAP TPOC for direction.

The contractor shall ensure that all Government Test, Measurement, and Diagnostic Equipment (TMDE) is calibrated in accordance with guidelines for testing prescribed by AR 750-43 (Army Test, Measurement, and Diagnostic Equipment) and Technical Bulletin (TB) 43-180 (Calibration and Repair Requirements for the Maintenance of Army Materiel).

C.5.3.3 SUBTASK 3 – ENGINEERING SYSTEM COMPLIANCE

The contractor shall support Army, DoD, and TENCAP's engineering system compliance requirements. These requirements include, but are not limited, to Interim Authorization to Operate (IATO), Interim Authorization to Test (IATT), Authorization to Operate (ATO), Information Assurance Vulnerability Alert (IAVA), and Information Assurance (IA). The Contractor shall provide support in the preparation of documentation for obtaining IATT and IAVA for system testing and IATO before fielding and operation. The contractor shall monitor,

obtain, and apply the DoD CERT released and identified notifications, technical advisories, alerts, and bulletins as mandated. Additionally, the contractor shall maintain current vulnerability scanning software and signatures to maintain compliance with local and national policies. The contractor shall also provide the updated scanning signatures, IAVAs, and Information Assurance Support Environment (IASE) Security Technical Implementation Guides (STIGs) for Government installation.

C.5.3.4 SUBTASK 4 – READINESS REPORTING SUPPORT

This TO defines readiness reporting as any system or subsystem that affects operational readiness (e.g., all systems and major system components supported by the contract or designated by the Government). The contractor shall identify and reconcile redundant readiness data derived from different sources and consolidate the data into a Government-approved format in accordance with AR 220-1, AR 700-138, and FM 5.0. The contractor shall ensure that the correct readiness status of mission systems and facilities is accurately delivered in a timely manner to ensure the reported status reflects real-time actionable information.

C.5.3.5 SUBTASK 5 – RELIABILITY, AVAILABILITY, AND MAINTAINABILITY (RAM) PROGRAM

The contractor shall develop and maintain a RAM Program for all systems and major system components supported by the TO. The RAM reports shall provide an analysis of the equipment performance and cost to maintain and sustain supported systems and equipment (**Section F, Deliverable 19**). The necessary data shall include, but is not limited to, Mean Time to Repair (MTTR)/Restore Equipment, Line Replaceable Units (LRUs); Mean Time Between Failures (MTBF); shipping times from each site to the appropriate OEM(s) and return; total time required to complete OEM repairs; hardware failure; and reliability/maintainability analysis.

C.5.4 TASK 4 - LOGISTICS FOR TRFE SYSTEMS

The contractor shall provide worldwide logistics support to Intelligence unit systems throughout the operational environment.

C.5.4.1 SUBTASK 1 - LOGISTICS SUPPORT

The contractor shall provide worldwide support to meet the full scope and range of logistical functions required by TENCAP. These functions shall include, but are not limited to, overall logistics management and control; vendor coordination; purchasing actions; inventory stockage-level development; receiving actions; shipping processes; packaging and preservation applications; blocking and bracing action; strapping and banding actions; United States (U.S.) Customs validation and clearing actions; repair and return processing; OEM processing; Return Material Authorization (RMA) coordination and actions; Controlled Cryptographic Item (CCI) movement; special category movement; airlift coordination; documentation control; Hazardous Material (HAZMAT) documentation and actions; Over, Short, or Damage (OS&D) claims procedures; inventory management systems maintenance; work order processing and updating; special category movement control; inventory control and special audits; shipping invoice validation; logistics instruction; identification, reporting, and disposition of excess material processing; general warehouse operations and control; forklift operations; and overall safety.

The contractor shall provide all logistics and transportation functions as required to effectively meet operational requirements. The contractor shall staff and manage all logistics functions effectively to meet operational requirements. The primary consideration shall be timely and effective logistics support that meets the mission support requirements of TENCAP and other IC supported customers.

The contractor shall also provide the full range logistics support to ground-based and aerial Intelligence systems. This support includes, but is not limited to, systems engineering; design; installation; repair; maintenance; modification; system removal; system administration deployment; operation; training; sustainment; and associated logistics including inventory management, storage, transportation of spares and repair parts, and OEM repair actions. This includes include, but is not limited to, purchasing actions, inventory stock-level development, and receiving actions. The contractor shall manage priority transportation requirements and flow of equipment, materiel, and personnel throughout the deployment, sustainment, and redeployment phases of operations. All shipped equipment shall be installed in accordance with applicable shipping requirements for Sensitive Compartmented Information Facilities (SCIFs).

C.5.4.2 SUBTASK 2 – LOGISTICAL DOCUMENTATION SUPPORT

The contractor shall maintain baseline documentation of developed efforts and fielded systems lifecycle documentation. The contractor shall provide technical documentation (**Section F, Deliverable 20**) to include, but is not limited to, white papers, technical reports, studies, and technical design specifications as required by tasking documentation. Design specifications shall include: engineering drawings; hardware and software configuration documentation; interface control documentation; quality assurance provisions; wiring and interconnect diagrams; signal flow charts; rack elevation drawings; parts lists; OEM components lists; and developed O&M TMs. The contractor shall provide product data to include complete design disclosure, form, fit, function requirements, and performance specifications. All program documentation shall comply with applicable regulatory and statutory requirements.

C.5.4.3 SUBTASK 3 - READINESS-BASED SPARING (RBS) LOGISTICS

The contractor shall conduct RBS and performance-based logistics analyses annually and publish a report (**Section F, Deliverable 21**) offering practical strategies to achieve spares optimization and improved supportability concepts. These strategies shall include evaluation of long lead items, cost drivers, and trade-offs for cost reductions versus operational readiness to establish optimum parameters for further analysis and action. Furthermore, the contractor shall provide an RBS planning estimates report (**Section F, Deliverable 22**) on annual bases to the FEDSIM COR and Army TENCAP TPOC with budget year execution recommendations and POM planning/programming estimates for new and legacy intelligence QRC systems and equipment.

C.5.5 TASK 5 - TRFE SYSTEM STUDIES, TEST AND EVALUATION, AND SAFETY SUPPORT

The contractor shall support the delivery of TRFE systems, provide the appropriate engineering to ensure that all TRFE variants and prototypes conform to the applicable U.S. Federal Safety Standards, and assist with study activities as directed by the Government.

C.5.5.1 SUBTASK 1 – TRFE SYSTEM STUDIES

The contractor shall assist with TRFE system studies to evaluate alternative approaches to identify solutions and capabilities (**Section F, Deliverable 23**). The contractor evaluation shall include the impact of TRFE systems and mission effectiveness. The contractor shall design and execute operational studies and evaluate alternatives. The three most common studies the contractor shall be required to conduct are:

- a. Determine and recommend tipping/queuing and integration methods for TRFE platforms as described in **Section J, Attachment J**.
- b. Conduct Common Data Link (CDL) studies to identify the inherent risks for Army users' CDL communications and provide proposed Concept of Operations (CONOPS) and Tactics, Techniques, and Procedures (TTPs) recommendations to users in support of overcoming potential vulnerabilities.
- c. Support research and development efforts to miniaturize TRFE components for incorporation into future systems in an effort to meet or exceed current, range, gain and bandwidth performance, while reducing system size and power requirements.

The contractor shall document its research, analysis, studies, and recommendations in written information, point, white, and decision papers (**Section F, Deliverable 18**).

C.5.5.2 SUBTASK 2 – TRFE SYSTEM TEST AND EVALUATION SUPPORT

The contractor shall support the delivery and testing of both current and new TRFE systems. Delivery shall include a fully functional system that meets the operational requirements as specified in the most current and approved specifications provided by TENCAP. The contractor shall develop and integrate a new system and conduct technical design reviews, demonstrations, and test and evaluation to validate the design meets the objectives specified by a requirement. This shall include all necessary security accreditation to successfully pass Factory Acceptance Tests, Regression Tests, Operational Assessments, and operational verification of hardware, software, and associated user acceptance criteria.

The contractor shall support TRFE exercises, as required, to evaluate system effectiveness to ensure operability of the system with Army, DoD, and TENCAP directives and regulations. The contractor shall provide specialized technical and operational subject matter expertise to support the planning and execution activities for TRFE exercises.

C.5.5.3 SUBTASK 3 - TRFE SYSTEM SAFETY STANDARDS

The contractor shall provide the appropriate engineering to ensure that all TRFE variants and prototypes conform to the applicable U.S. Federal Safety Standards. This includes airworthiness testing, validation, and accreditation. The contractor shall develop a Safety Assessment Report (SAR) (**Section F, Deliverable 24**) and complete all steps to achieve a Safety Confirmation awarded by the Army Communications-Electronics Command (CECOM) in the safety confirmation process.

C.5.6 TASK 6 - TRFE SYSTEM FIELDING, INSTALLATION, AND TRAINING SUPPORT

The contractor shall develop, procure, install, train, operate, and maintain previously developed interagency hardware in support of Government research, development, and/or prototyping for TRFE solutions. This task will also provide technical support through procurement to and installation of COTS components as well as the fabrication and assembly of specialized components for the design and delivery of TRFE systems at OCONUS and CONUS designated locations (**See Section J. Attachment J for location details**).

C.5.6.1 SUBTASK 1 – SYSTEMS FIELDING & INSTALLATION SUPPORT

The contractor shall conduct site surveys and investigations for the projected or planned systems and equipment installations. The contractor shall determine and identify facility requirements and/or modifications relating to the system or equipment installations relocations, realignments, new missions, and organization changes or other facility requirement changes due to related actions. The contractor shall prepare Stationing Plans and Summary Packages (**Section F, Deliverable 25**) which identify requirements and ensure that personnel, facilities, infrastructure, equipment and other assets are properly planned.

The contractor shall recommend and execute all pre-fielding requirements to ensure there are no adverse impacts to the fielding schedule. The contractor shall assist the Government in identifying and ensuring availability of all items required for installation, to include Material Handling Equipment (MHE), Environmental Control Units (ECUs), generators, system spares, facilities, and facility infrastructure systems and equipment, including Government-Furnished Equipment (GFE) and any necessary resources.

The contractor shall provide the resources at the fielding location to uncrate, package, take inventory, ship, track, receive, setup, install, test, baseline, train, and transfer fielded systems and logistics support packages to Government personnel or designated entities as identified. The contractor shall conduct Physical Configuration Audits (PCAs)/Functional Configuration Audits (FCAs) and document the results (**Section F, Deliverable 26**).

The contractor shall serve as the lead integrator and assist the Materiel Developer with research, development, installation, testing, and engineering support. Additionally, as needed, the contractor shall recommend sparing lists and a preventive maintenance schedule. The contractor shall prepare a list of system spares and repair parts (**Section F Deliverable 27**) procured to be fielded with the system for submission to the Government quarterly.

The contractor shall complete space availability coordination with the gaining unit and assess required hard stand facilities availability for the system/equipment.

C.5.6.2 SUBTASK 2– TRFE SYSTEM TRAINING SUPPORT

The contractor shall provide operator and maintenance training on TRFE systems. This training includes, but is not limited to, Computer Based Training (CBT) materials, in class training materials, and all necessary technical manuals. The training materials, manuals, and drawings shall align with applicable prevailing regulations.

C.5.7 TASK 7 - ENHANCED TRFE CAPABILITIES

The contractor shall provide quick reaction engineering capabilities and rapid prototyping support for TRFE and other intelligence sensor system projects in response to emergent special projects. Emerging technologies shall be developed, integrated, and sustained in a similar manner as described in Section C and within the timeline required by the special project. This support includes, but is not limited to the following:

- a. Provide QRC support to include PDR, engineering concepts, and design alternatives.
- b. Identify final design and any necessary integration efforts.
- c. Conduct any necessary integration, pertinent design reviews, and testing to meet ONS requirements.
- d. Procure associated equipment and maintain accountability of property.
- e. Assist in any required documentation and shipping. Provide logistics and technical support for CONUS and OCONUS locations to conduct systems integration, installation, testing, training, and system familiarization.
- f. Develop the required documentation for the Urgent Material Release (UMR).